

Docket No. 291682US2RD PCT

10/581030
1AP20R&c'd PCT/PTO 30 MAY 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Ryoichi OHARA, et al.

SERIAL NO: New U.S. PCT Application Based on PCTJP06/305070

GAU:

FILED: Herewith

EXAMINER:

FOR: THIN-FILM PIEZOELECTRIC RESONATOR AND FILTER CIRCUIT

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☒ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION


- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449
(Modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

291682US2RD PCT

SERIAL NO. 581030
New U.S. PCT Application
Based on PCTJP06/305070

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Ryoichi OHARA, et al.

FILING DATE

Herewith

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	2005-142888	06/30/05	EBUCHI et al.			
	AB	6 384 697	05/07/02	RUBY			
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO					
	AP					
	AQ					
	AR					
	AS					
	AT					
	AU					
	AV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	LAKIN, K. M. et al., " 1.0-GHz thin-film bulk acoustic wave resonators on GaAs", Appl. Phys. Letter, Vol. 43, No. 8, Pages 750 - 751, 1983.
	AX	
	AY	
	AZ	

☐ Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

New U.S. PCT Application Based on PCT/JP06/305070

Ryoichi OHARA, et al.

Docket No. 291682 US

STATEMENT OF RELEVANCY

- 1) References have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References have been cited in the corresponding Search Report. A copy of these references is being submitted herewith.
- 3) References AB & AW are discussed in the specification. A copy of these references is being submitted herewith.
- 4) References are additional prior art known to Applicant. A copy of these references is being submitted herewith.

AB: 6,384,697

Technologies of FBAR using a bottom electrode which has edges extending beyond each boundary of cavity are disclosed.

AW: LAKIN, K. M. et al., "1.0-GHz thin-film bulk acoustic wave resonators on GaAs", Appl. Phys. Letter, Vol. 43, No. 8, Pages 750 - 751, 1983.

Technologies of FBAR using a bottom electrode which has edges extending beyond each boundary of cavity are disclosed.

APPROPRIATE TO 30 MAY 2006

LIST OF RELATED CASES CITED BY APPLICANT UNDER 37 CFR 1.56	Docket No.: 291682US2RD PCT	Serial No.: New Application 281030
	Inventor: Ryoichi OHARA, et al.	
	Filing Date: Herewith	Group:

LIST OF RELATED CASES

<u>Examiner Initial</u>	<u>Docket No.</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Patent App. Publication No.</u>	<u>Inventor or Applicant</u>
	256032US2	10/890,989	07/15/04	2005-142888	EBUCHI, et al.
	287666US2RD	11/376,266	03/16/06		YANASE, et al.

Examiner

Date Considered

EHK/sgi

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